

AMG-17 TM/DDM Tech Exchange

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Agenda

Data Distribution Management

9:00 DDM documentation status
9:30 DDM experiences: Perceptronics

Morse
Kemkes

Lunch

11:30

Data Distribution Management (cont.)

12:30 DDM experiences: STOW

Fine

Time Management

1:30 Synchronized joins to the federation

Fujimoto

Break

2:30

Time Management (cont.)

2:45 Zero lookahead experiments

Steinman

Wrap-Up

3:15 Action item review
3:30 Plans for next meeting

Morse
Morse

DDM Design Document Status

- **Comments from AMG on version 0.4 were due January 31**
- **Version 0.5 is complete based on AMG comments; recommend putting up on web site**
- **Feedback from DDM tests will be folded into 1.0 which will be released with RTI 1.1 in July**

DDM Use Case Study

- **Record results and lessons learned with DDM use**
 - **Initially Perceptronics and STOW**
- **To be used in conjunction with DDM Design Document**
 - **Design Document provides conceptual understanding**
 - **Use Case Study provides specific technical details for implementers**
- **DDM tutorial will be based on Design Document and Use Case Study**

DDM Use Case Study Outline

1. SCENARIO

Number and types of federates; number and type of entities, assignment to federates; goals/mission; motion in parameter space; location in network

2. ROUTING SPACES

2.1 Goals

What type of data reductions were needed and/or expected

2.2 FOM and FED Routing Space Specifications

2.3 Code Examples

3. RESULTS

3.1 Metrics

Message reduction, multicast group usage, etc.

3.2 Analysis

How factors such as interaction of federates, network proximity and bandwidth limitations, etc. affected metrics

3.3 Lessons Learned

What broadly applicable lessons can we learn from the metrics and analysis

4. APPENDIXES

4.1 Hardware Architecture

Network diagrams; bandwidth specifications; node specifications

4.2 Reusable Code

Packages of code developed for experiments which have general reusability

TM/DDM Tech Exchange Results

- Plans for next meeting

Action Items from TM/DDM Tech Exchange

<u>Number</u>	<u>Assignee</u>	<u>Date Due</u>	<u>Action Item</u>
16-1	Weatherly, Fujimoto Filsinger, Steinman	Feb. TM/DDM mtg.	Prepare TM/guard solution draft <i>Will be resolved in conjunction with gateway federate</i>
16-2	Fujimoto	12/23/96	Identify experimenter for zero-lookahead proposa <i>Closed: see 16-3</i>
16-3	Steinman/Metron	June AMG mtg.	Perform zero-lookahead experiments
16-4	Fujimoto	June AMG mtg.	Make recommendation on zero lookahead for August I/F spec checkpoint